

BAR SPLICER ASSEMBLY ALTERNATIVES

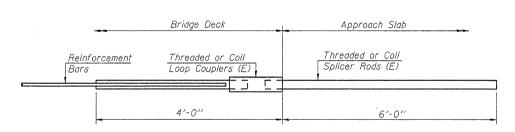
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

Template Threaded or Coil Splicer Rods (E) Forms --Foam Plugs -Washer Face <u>"B"</u>

Stage Construction Line

INSTALLATION AND SETTING METHODS

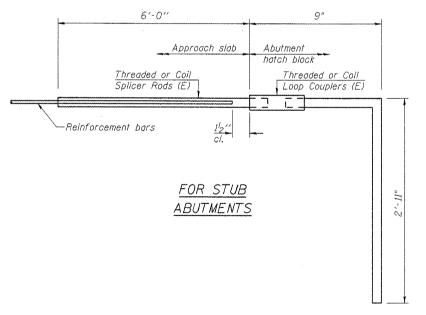
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 0

DESIGNED -CHECKED DRAWN CHECKED BSD-1 10-1-08



Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 96

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

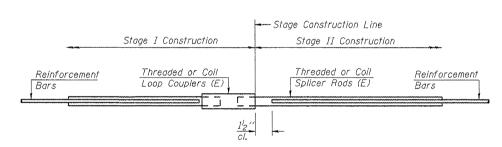
Minimum Capacity = 1.25 x fy x A_t

(Tension in Kips)
Minimum *Pull-out Strength
- - = 0.66 x fy x A_t (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES							
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements					
			Min. Pull-Out Strength kips - tension				
#4	1'-8''	14.7	7.9				
#5	2'-2''	23.0	12.3				
#6	2'-7"	33.1	17.4				
#7	3′-5′′	45.1	23.8				
#8	4'-6''	58.9	31.3				
#9	5′-9′′	75.0	39.6				
#10	7'-3"	95.0	50.3				
#11	9'-0''	117.4	61.8				



STANDARD

Bar Size	No. Assemblies Required	Location
	0	

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 016-2530

SHEET NO. 15	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	305	1415 B	соок	75	53
15 SHEETS			CONTRACT	NO. 6	OF60
	FED. R	DAD DIST. NO. 7 ILLINOIS FED. A	ID PROJECT		